

**INDIAN BUREAU OF MINES  
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

**MCDR INSPECTION REPORT**

**Gandhinagar regional office**

**Mine file No :** RAJ/CHT/LST-7

**Mine code :** 38RAJ09010

- (i) Name of the Inspecting : **CB01** ) **Sh. Chandresh Bohra**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : **SH. SOMNATH BANARJEE, MINE MANAGER**  
Official with  
Designation
- (iv) Date of Inspection : 09-JAN-24
- (v) Prev.inspection date : 01-NOV-22

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **SITARAMJI KA KHERA**
- (b) **Registration NO.** : **IBM/378/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : RAJASTHAN  
District : CHITTORGARH  
Village : Sitaramji Ka Khera  
Taluka : Nimbahera  
Post office : Mangrol  
Pin Code : 312620  
FAX No. : 07727006120  
E-mail : somnath.banerjee@nuvoco.in  
Phone : 09893497199
- (f) Police Station : Mangrol
- (g) First opening date : 21-MAY-15
- (h) Weekly day of rest : SUN
2. Address for : VILLAGE- SITA RAM JI KA KHERA  
correspondance : DISTT- CHITTORGARH  
RAJASTHAN
3. (a) Lease Number : RAJ5429
- (b) Lease area : 602
- (c) Period of lease : 50
- (d) Date of Expiry : 07-JUL-43
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : LAFARGE INDIA PVT. LTD.  
 VILLAGE BHAVLIYA TAHSIL  
 NIMBAHERA DIST.  
 CHITTORGARH(RAJ.)  
 CHITTORGARH RAJASTHAN  
 Phone:  
 FAX :

Owner : Mr. Ujjwal Batria  
 Equinox Business Park  
 Towers-3 East Wing,4th  
 Floor,Bandra Kurla  
 Complex,LBS Road,Kurla  
 West,Mumbai MUMBAI  
 (SUBURBAN) MAHARASHTRA  
 Phone:  
 FAX : 02266306511

Agent : Sanjay Kumar Tyagi  
 Nuvoco Vistas Corp. Ltd,  
 Village - Bhawaliya, Tehsil  
 - Nimbahera,Chittorgarh  
 CHITTORGARH RAJASTHAN  
 Phone: 9685013131  
 FAX : 9685013131

Mining Engineer  
 Name : Rajesh Goyal,Full Time  
 Qualification : BE(Mining)  
 Appointment/ : 07-MAY-17  
 Termination date

Geologist  
 Name : Mrinmoy Chakraborty,Full Time  
 Qualification : M.Sc.(Applied Geology)  
 Appointment/ : 28-MAR-16 12-JAN-19  
 Termination date

Geologist  
 Name : Rajesh Singh,Full Time  
 Qualification : M. Tech in Applied Geology  
 Appointment/ : 01-FEB-19  
 Termination date

Manager  
 Name : SOMNATH BANERJEE  
 Qualification :  
 Appointment/ : 10-AUG-15  
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : MP review under 17(1) MCR 2016 27-JAN-23

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Not in proposal	NA	
1b	Exploration over lease area for geological axis 1 or 2	Not in proposal	NA	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not in proposal	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not in proposal	NA	
1f	General remarks of inspecting officers on geology, exploration etc	NA	The present status of Geology and exploration may be considered as satisfactory.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Norting : 2733571-2734671 Easting : 467328- 467798	Norting : 2733760-2734771 Easting : 467325-467748	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal for separate benches for top soil and overburden	There are no existing benches for top soil and overburden .	
2c	Stripping ratio or ore to OB ratio	1:0.12	1:0.0007	
2d	Quantity of topsoil generation in m3	1500 cu.m.	5318.64 cu.m	
2e	Quantity of overburden generation in m3	300000 MT	4866.77 MT	

2f General remarks of inspecting officers on development of pit w.r.t. type of deposit etc The overall development of pit w.r.t. type of deposit may be considered as satisfactory.

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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	Limestone- 2400000 MT Sub Grade- 200000 MT Screen Reject- 80000 MT	Limestone 2593879.91 MT Sub Grade- Nil Screen Reject- 3347 MT	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	80000 MT	3347 MT	
3e	Grade of mineral rejects generation and threshold value declared.	CaO<34%	CaO< 34%	
3f	Quantity of sub grade mineral generation.	200000 MT	Nil	
3g	Grade of sub grade mineral generation	CaO- 34 to 40% SiO2- 16 to 18%	CaO- 34 to 40% SiO2- 16 to 18%	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No beneficiation study proposed during the year 2022-23	No beneficiation study carried out during the year 2022-23	

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3j	Provision of drilling and blasting in mineral benches	The drilling of blast holes is being done by down the hole drill machines of 115mm diameter operated by compressed air. For blaasting slurry cap sensative explosives, ANFO and SME to be used.	Drilling and blasting are doen as per the proposal. Slurry cap sensative explosives & ANFO is used for blasting.
3k	Provision of mining machineries in mineral benches	1.Drill machine 115 mm dia- 3 2.Air CCompressor 450 cfm- 3 Excavator 3.4 cum- 3 Excavator 3.2 cum- 1 Dumpers 33 T- 10 Dumper 34T- 7 DOzer- 2 Rock breaker- 2 Water Tanker- 2 Dumper 34T- 7 DOzer- 2 Rock breaker- 2 Water Tanker- 2	1.Drill machine 115 mm dia- 3 2.Air CCompressor 450 cfm- 3 Excavator 3.4 cum- 3 Excavator 3.2 cum- 1 Dumpers 33 T- 10 Dumper 34T- 7 DOzer- 2 Rock breaker- 2 Water Tanker- 2
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of bench proposed- 10 mts.	Height of bench existing-10 mts.
3m	Total area covered under excavation/pits	At the end of plan period : Pit 43.70 ha	2022-23 : Pit 33.48 ha
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.12	1: 0.0007

3o	Total area put in use under different heads at the end of year	At the end of Plan Period: Pit : 43.70, Waste dump: 6.75 ha, Mineral Storage : 2.26 ha Sub Grade Storage : 3 ha, Reject Storage: 4.80 ha Infrastructure : 5.44 ha Roads: 6.36 ha Green belt: 9 ha Crusher/Screen ramp 2.56 ha	2022-23: Pit : 33.48, Waste dump: 0.296 ha, Mineral Storage : 1.75 ha Sub Grade Storage : nil, Reject Storage: 2.68 ha Infrastructure: 2.68 ha Roads: 2.12 ha Green belt: 16.53 ha Crusher/Screen ramp 2.56 ha
3p	Production of ROM mineral during the last five year period as applicable	2018-19: 2600000MT 2019-20: 2600000MT 2020-21: 2600000MT 2021-22: 2600000MT 2022-23: 2600000MT	2018-19: 2272531MT(71011MT-Screent Reject) 2019-20: 2162337.3 MT(62579 MT-Screen Reject) 2020-21: 2279977.42MT(66611 MT Sc.R) 2021-22: 2560671.79 MT(5183MT Sc.R) 2022-23: 2597227.17 MT(3347MT Sc.R.)
3q	General remarks of inspecting officers on method of mining etc.	NA	The present status of method of mining may be considered as satisfactory.

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Solid Waste Management - Dumping:

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Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	Yes	
4b	Location of topsoil, OB and mineral reject dumps	Out side UPL	Out side UPL	

4c	Number of dumps within lease area and outside of lease area	Waste Dump: 02 Reject dump: 02	Waste Dump: 01 Reject dump: 02
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Waste Dump 1: Northing 2733304-2733463 EASTING : 467805-468117 Waste Dump 2: Northing : 2734831.9-2734944.6 Easting 468564.3-468724.3 Reject Dump 1: Northing 2733245-2733356 Easting 467803.47-467959.96 Reject Dump 2: Northing 2733197.1-2737707 Easting 467531-467591	Waste Dump 1: Northing 2733428-2733456 Easting : 467812-467845  Reject Dump 1: Northing 2733245-2733356 Easting 467803.47-467959.96 Reject Dump 2: Northing 2733262-2733347 Easting 467531-467591
4e	Number of active and alive dumps.	Screen Reject _ 02 Waste Rock- 02	Screen Reject _ 02 Waste Rock- 01
4f	Number of dead dumps.	Nil	Nil
4g	Number of dumps established.	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes
4i	Length of Retaining wall or garland drain all along dumps	Not specified in proposal	Cleaning of garland drain around dump
4j	Number of settling ponds	One	One
4k	Specific comments of inspecting officer on waste dump management	NA	The present status of waste dump management may be considered as satisfactory.

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## Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Not proposed in this early stage of Mining	Top soil handeled during mining is simultaneously used for plantation. Mineral is continuing at the bottom most part.	
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	For Plantation	Top soil handled during mining is simultaneously used for plantation.	
5d	Total area fully reclaimed and rehabilitated	NA	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	The present status may be considered as satisfactory	

## Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yes	Yes	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	1.0 ha	1.0 ha	
6d	No. of saplings planted during the year	2000	2965 nos within ML and 1232 nos outside ML, Total 4197 nos.	
6e	Cumulative no .of plants	Not specified	50290	
6f	Any other method of rehabilitation	Not specified	NA	
6g	Cost incurred on watch and care during the year	Not specified	Rs. 48.74 Lakh	



6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NA
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA

6p	Compliance of environmental monitoring (core zone and buffer zone)	NA	NA
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	The overall status of PMCP compliance and progressive closure operations may be considered as satisfactory.

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	24000000 (Cement Grade) 200000 (Sub Grade)	2597227.17 MT- Cement Grade Sub Grade -Nil	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	
7c	Different grade of mineral sorted out at mines.	NA	NA	
7d	Any beneficiation process at mines	Crushing + screening	Crushing + Screening	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	The present status of mineral conservation and beneficiation issues may be considered as satisfactory.		

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	1500 cum	5318.64 cum	

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8b	Concurrent use or storage of topsoil	Plantation	Plantation
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Waste rock and rejects dumps are kept separate	Waste rock and rejects dumps are kept separate
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Bunds for rain water , road making	Bunds for rain water , road making
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Planning for reclamation and rehabilitation proposed	The mine operation in early stage.NA
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	NA	1 .0 ha within ML 1232 nos within ML & 2965 nos outside MLTotal- 4197 nos Cumulative -50290
8g	Survival rate	NA	75%
8h	Water sprinkling on roads to control airborne dust	Regular during transportation of limestone	Regular water sprinkling is being done.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NA	The present status of aesthetic beauty in and around the mines area may be considered as satisfactory.

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Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes	Yes, submitted	

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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mininig Engineer : Mr. Rajesh Goyal Geologist: Mrs.Rajesh Singh, Manager Mr. Somnath Banarjee	As above
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pits : 33.48 ha Waste Disposal : ).296 ha Plant building Road etc. 7.36 ha Others(Plantation Stock): 16.53 ha	As above
9d	Scrutiny of Annual return on afforestation	2965 nos within ML & 1232 nos outside ML Total 4197 nos.	As above
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral Reject : 3347 MT CaO< 34% SiO2>25%	As above
9f	Scrutiny of Annual return on ROM stock and/or graded ore	148608.92 MT	As above

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Direct Cost: 111.04 a. Exploration- 0.00 b. Mining - 111.04 c. Beneficiation- 0.0 ii) Overhead cost- 8.99 iii) Depreciation 3.15 iv) interest - 0.00 v) Royalty- 80.0 vi) Taxes 0.0 vii) Dead Rent- 0.00 viii) Others (DMF<NMET) 25.60 Total 228.78	As above
9h	Scrutiny of Annual return on fixed assets	Value of fixed assets : Rs. 294346644	As above
9k	Scrutiny of Annual return on mining machineries	Back Hoe(3.4 CUM)-3 Nos, Back Hoe(3.2 cum) 1,DOzer- 2, Dumpers (33T)-10, Dumpers(34T)- 7, Drilling Machines-3, Water Tanker- 1, Crusher- 1mTractor-1	As above.

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**Details of violations observed during current inspection and compliance position of violation pointed out**

Violation observed		Show couse position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

**Date :**

**(Sh. Chandresh Bohra)**

Indian Bureau of Mines